

Amendments to the Specification

Please insert the below-recited “Related Applications” section, at page 1, preceding the “Technical Field” section:

--RELATED APPLICATIONS

This application is a national stage application, filed under 35 U.S.C. §371, of International Application No. PCT/US2005/010744, filed on March 29, 2005, which claims the benefit of USSN 60/557,732 filed March 29, 2004 and USSN 60/560,026 filed April 7, 2004, the contents of which are each herein incorporated by reference in their entireties.--

Please insert the revised sequence listing, pages 1-11, at the end of the specification.

Please replace the sentence at page 6, lines 14-15, with the following:

“Figure 6 is an automated tracing by type of nucleotide base obtained from DNA sequencing of RT-PCR products (SEQ ID NO: 20).”

Please replace the sentence at page 6, lines 19-21, with the following:

“Scheme 1 is a drawing of (A) a hypothetical scheme for repair of CFTR Δ508 mRNA by CF4/CF6 duplex (SEQ ID NO: 21 corresponding to the Wild Type sequence, SEQ ID NO: 22 corresponding to the Δ508 mRNA sequence, SEQ ID NO: 1 corresponding to the CF4 sequence, and SEQ ID NO: 2 corresponding to the CF6 sequence), and (B) sequences found in restored mRNA (SEQ ID NO: 4 corresponding to the N1 sequence, SEQ ID NO: 6 corresponding to the NF1 sequence, SEQ ID NO: 12 corresponding to the SNF1 sequence).”

Please replace the sentence at page 8, lines 15-16, with the following:

“Scheme 11 is a drawing of a hypothetical scheme for repair of Inactive tyrosinase by two-step oligonucleotide complex technique (depicting SEQ ID NO: 23, SEQ ID NO: 23, SEQ ID NO: 24, SEQ ID NO: 25 (left side schematic sequence), SEQ ID NO: 26 (right side schematic sequence), SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, and SEQ ID NO: 31, from top to bottom, respectively).”

Please replace the sentence at page 8, lines 20-21, with the following:

“Scheme 12 is a drawing of a hypothetical scheme for repair of Inactive tyrosinase by one-step oligonucleotide complex technique (depicting SEQ ID NO: 32, SEQ ID NO: 32, SEQ ID NO: 33, SEQ ID NO: 34, and SEQ ID NO: 35, from top to bottom, respectively.)”

Please replace the sentence at page 8, lines 25-27, with the following:

Scheme 13 is a drawing of a hypothetical scheme for repair of Cystic Fibrosis Δ508 mRNA by two-step oligonucleotide complex technique (depicting SEQ ID NO: 21, SEQ ID NO: 22, SEQ ID NO: 22, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 39, and SEQ ID NO: 40, from top to bottom, respectively.)”

Please replace the sentence at page 8, lines 30-31, with the following:

“Scheme 14 is a drawing of a hypothetical scheme for repair of Cystic Fibrosis Δ508 mRNA by one step oligonucleotide complex technique (depicting SEQ ID NO: 21, SEQ ID NO: 22, SEQ ID NO: 22, SEQ ID NO: 22, SEQ ID NO: 41, SEQ ID NO: 39, and SEQ ID NO: 42, from top to bottom, respectively.)”

Please replace the sentence at page 9, lines 4-5, with the following:

“Scheme 15 shows the insertion into the gene for Huntington protein with HT3 followed by HT4/HT6 duplex oligonucleotides (depicting SEQ ID NO: 43, SEQ ID NO: 44, SEQ ID NO: 43, SEQ ID NO: 14, SEQ ID NO: 45 (left of cut mRNA), SEQ ID NO: 46 (right of cut mRNA), SEQ ID NO: 15, SEQ ID NO: 16, SEQ ID NO: 47, SEQ ID NO: 48, and SEQ ID NO: 49, from top to bottom, respectively.)”

Please replace the sentence at page 9, lines 9-10, with the following:

“Scheme 16 shows the insertion into the Aim-1 gene with Alb3 followed by A1b4/A1b6 duplex oligonucleotides (depicting SEQ ID NO: 50, SEQ ID NO: 51, SEQ ID NO: 52, SEQ ID NO: 53, SEQ ID NO: 54, SEQ ID NO: 17, SEQ ID NO: 55 (left of cut mRNA), SEQ ID NO: 56)”

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(right of cut mRNA), SEQ ID NO: 17, SEQ ID NO: 18, SEQ ID NO: 19, and SEQ ID NO: 57,
from top to bottom, respectively).”